

sub
D17
C1
1. (Three Times Amended) A method of detecting one of
electromagnetic radiation in the optical range and nuclear
radiation, comprising the steps of:

exposing a microcantilever to a non-contact source of
electromagnetic radiation, the microcantilever having at least
one physical property affected by electromagnetic radiation;

monitoring electromagnetic radiation-induced changes in the
at least one physical property; and

correlating changes in the at least one physical property to
a measure of the electromagnetic radiation.

sub
D37
C2
17. (Three Times Amended) An apparatus for detecting one
of electromagnetic radiation in the optical range and nuclear
radiation, comprising:

a radiation sensor having an element exposed to a non-
contact source of electromagnetic radiation, the sensor having at
least one physical property affected by the electromagnetic
radiation;

means for monitoring electromagnetic radiation-induced
changes in the at least one physical property of the sensor; and

means for correlating changes in the at least one physical
property to a measure of the electromagnetic radiation.